Express Mail Label No.: EL 697 493 639 US

IN THE U.S. PATENT AND TRADEMARK OFFICE

November 7, 2001

Applicant(s) : Okimitsu YASUDA et al.

For : SULFURIC ACID RYCYCLE APPARATUS

Atty. Docket No.: OPS Case 555

Assistant Commissioner for Patents Washington, DC 20231

PRELIMINARY AMENDMENT CANCELLING CLAIMS

Sir:

Prior to calculation of the filing fee in the aboveidentified application, kindly enter the following:

IN THE CLAIMS

Kindly amend Claims 3 and 5-7 as follows:

- 3. (Amended) The sulfuric acid recycle apparatus according to Claim 1, wherein the reaction bath includes therein a plurality of partition plates for changing an advancing direction of the wafer cleaning waste fluid, and an inclination plate positioned at a portion closer to the gas discharge port than the partition plates for allowing the concentrated sulfuric acid to flow along the surface thereof.
- 5. (Amended) The sulfuric acid recycle apparatus according to Claim 1, wherein the reaction bath has a waterdrop storage bath for preventing waterdrop attached to a ceiling surface of the reaction bath from being mixed with the concentrated sulfuric acid.
- 6. (Amended) The sulfuric acid recycle apparatus according to Claim 1, wherein fresh sulfuric acid is supplied to the concentrated sulfuric acid.
- 7. (Amended) The sulfuric acid recycle apparatus according to Claim 2, wherein a heating temperature in the reaction bath ranges from 150° C to 350° C.

Preliminary Amendment Cancelling Claims - Page 2

Pursuant to 37 CFR §1.121, a marked-up version of amended Claims 3 and 5-7 is attached hereto showing the changes made by the current amendment.

REMARKS

This amendment amends Claims 3 and 5-7 to eliminate multiple dependencies so as to reduce the filing fee. Please enter this amendment before calculating the filing fee.

Respectfully submitted,

Dale H. Thiel

DHT/jp

	Dale H. Thiel David G. Boutell Ronald J. Tanis	Reg. Reg. Reg.	No.	25	072
Kalamazoo, MI 49008-1699 Phone: (616) 381-1156		Reg.	No.	32	549
Fax: (616) 381-5465	David S. Goldenberg Sidney B. Williams, Jr.	Reg.	No.	31	257
	Liane L. Churney Brian R. Tumm	Reg. Reg. Reg.	No.	40 36	694 328

Encl: Marked-up version of Claims 3 and 5-7

111.9803

Express Mail No. EL 697 493 639 US Applicant: Okimitsu YASUDA et al.

Atty. Ref.: OPS Case 555

Page 1

November 7, 2001

Claims 3 and 5-7 have been amended as follows:

- (Amended) The sulfuric acid recycle apparatus according to Claim 1 or 2, wherein the reaction bath includes therein a plurality of partition plates for changing an advancing direction of the wafer cleaning waste fluid, and an inclination plate positioned at a portion closer to the gas discharge port than the partition plates for allowing the concentrated sulfuric acid to flow along the surface thereof.
- (Amended) The sulfuric acid recycle apparatus according to any of Claims 1 to 4 Claim 1, wherein the reaction bath has a waterdrop storage bath for preventing waterdrop attached to a ceiling surface of the reaction bath from being mixed with the concentrated sulfuric acid.
- (Amended) The sulfuric acid recycle apparatus 6. according to any of Claims 1 to 5 Claim 1, wherein fresh sulfuric acid is supplied to the concentrated sulfuric acid.
- The sulfuric acid recycle apparatus (Amended) 7. according to any of Claims 2 to 6Claim 2, wherein a heating temperature in the reaction bath ranges from 150°C to 350°C.